

**WHAT IS CLAIMED IS:**

- Sub  
A<sup>5</sup>
1. A headlight for a motor vehicle, for travel along a road defining an axis of the road which is the general direction of travel of the vehicle, the headlight comprising a light source and optical means adjacent to the light source for cooperation with the light source for producing a beam which is generally spread widthwise with respect to the axis of the road, wherein the said optical means are adapted to create in said beam two distinct zones of maximum light intensity.
2. A headlight according to Claim 1, wherein the said optical means are adapted to put one of the said zones of maximum light intensity substantially in the axis of the road.
3. A headlight according to Claim 1, wherein the two said zones of maximum light intensity are offset angularly from each other by an amount in the range 30 to 40°.
- Sub  
C<sup>1</sup>
4. A headlight according to Claim 1, defining a beam profile in which the beam is defined by a generally horizontal cut-off line at the top of the beam.
5. A headlight according to Claim 4, defining a beam profile in which the said cut-off line consists essentially of two substantially horizontal straight sections disposed at different heights, wherein a first said section is substantially in the axis of the road and is lower than the other said section.

Sub A<sup>6</sup>  
6. A headlight according to Claim 1, wherein the optical means comprise a reflector for producing said beam directly from the light source.

Sub C<sup>1</sup>  
5 7. A headlight according to Claim 6, wherein the reflector comprises a left hand portion and a right hand portion, for producing said zones of maximum light intensity situated on the right and left hand sides respectively in the beam.

Sub A<sup>7</sup>  
10 8. A pair of headlights for a motor vehicle for travel along a road defining an axis of the road such that travel of the vehicle is substantially along the axis of the road, the said pair of headlights comprising a left hand light and a right hand light, wherein a first one of the said lights is adapted to produce a first beam generally spread widthwise with respect to the axis of the road and having a first zone of maximum light intensity offset from the axis of the road in a first  
15 lateral direction and a second zone of maximum light intensity situated close to the axis of the road, and wherein the other said light is adapted to produce a second beam generally spread widthwise and having a first zone of maximum light intensity offset from the axis of the road in a second lateral direction opposite to the said first lateral  
20 direction, and a second zone of maximum light intensity situated close to the axis of the road.

Sub C<sup>1</sup>  
25 9. A pair of headlights according to Claim 8, wherein each said headlight is adapted to be lit individually according to bends in the axis of the road negotiated by the vehicle, and wherein both headlights are adapted to be lit simultaneously to produce jointly a fog penetrating beam.

Sub  
A8

10. A pair of headlights according to Claim 8, wherein each said headlight includes a reflector adapted to form its beam directly from the light source, and wherein the two headlights include reflectors identical with each other but tilted laterally in two opposite directions.

5 11. A pair of headlights according to Claim 10, each defining a vertical axial plane, wherein each said reflector has a reflective surface which is symmetrical with respect to the said vertical axial plane of that headlight.

Sub  
C1140